

# Small-size sewage treatment system with microfiltration

# BUSSEMF

Water of the next generation

The **BUSSEMF** type MF-G-HKA 4 (general design qualification approval no. Z-55.3-60) for 1 to 4 people households is service fitted to available systems such as pits without outlet or 3-chamber sewage treatment systems. The existing and suitable collection tank in the ground (concrete pit or plastic tank) serves as pre-cleaning and buffer tank and is equipped with an additional pump with aerator and coarse material separator. The activation tank of the system is installed in a frost-free room in the basement or in an adjacent building (garage, garden house, etc.). The connection between the pit and the tank site is made with two customer-supplied buried empty conduit pipes (DN 110, DN 160). Ventilation is either through the inlet pipe in the pit or as a separate venting pipe.

If the treated water cannot flow from the system by gravity 30 cm above ground level, an optional filtrate hoister can bridge the difference. If you want to use the purified water for flushing, an automatic machine can feed it in the treated water pipe. If you want to

water your garden, the treated water can be stored in a rainwater tank.

Sufficient access space is needed for installation, operation and maintenance and the room must be at least 2 meters high.

The modular design makes the system adaptable to most local sites. If more wastewater must be treated, e.g., when more people live in the house, the **BUSSEMF** can be added to.

The standard system is installed and ready for service within a few hours. Automatic absence control ensures that the system remains in full biological operation also when you are not at home for several weeks.

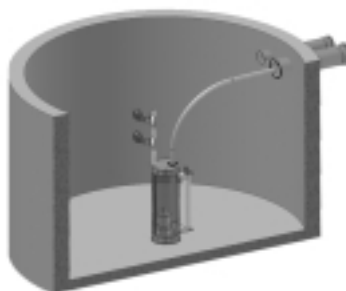
To ensure smooth operation of the system, a service contract is concluded with every customer. The process and also the membranes require maintenance by the supplier or another specialized company.

## Type MF-G-HKA 4

The optimal combination for your sewage collection pit



Illustration typical



Pit-installed pump

Technical specifications	BUSSE-MF type MF-G-HKA 4	
Connection size	persons	1 - 4
Max. daily wastewater volume	[m <sup>3</sup> /d]	0,60
Max. daily sludge load	[kg BOD <sub>5</sub> /d]	0,24
Power supply (AC)	[V]	230
Power consumption (min-max)	[kWh/d]	1,8 - 3,0
Min. room height	[m]	2,0
Safety tank (double wall) one tank footprint 0.75 m x 1.15 m	[ea.]	1
Required inlet height in system	[m]	> 1,65
COD obtained in discharge	[mg/l]	< 75 (Ø 30)
BOD <sub>5</sub> obtained in discharge	[mg/l]	< 15 (Ø 5)
Conc. of filterable mat. obtained in discharge	[mg/l]	< 50 (Ø < 1)
Obtained NH <sub>4</sub> -N concentr. obtained in discharge	[mg/l]	< 10 (Ø 3)
Bathing water directive (76/160/EEC)	[CFU/ml]	Limit and conduct. complied with
Watering water acc. DIN 19650	[CBU/ml]	Suitability classes 2, 3 and 4

### Optional units

Filtrate hoisting machine FH 450

Filtrate double hoisting machine FHD 450

Activated charcoal filter unit (incl. 175 l treated storage tank)

Treated water storage tank, single-wall, 500 l capacity

Automatic house water machine, 800 W

Specifications are subject to change  
June 2003

BUSSE IS GmbH  
Zaucheweg 6 · 04316 Leipzig  
Phone: +49 (0)341-65984-25  
Fax: +49 (0)341-65984-26  
e-mail: info@busse-is.de  
[www.busse-is.de](http://www.busse-is.de)

